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# NOTICE OF ALLOWANCE AND FEE(S) DUE

25908

7590

02/09/2009

NOVOZYMES NORTH AMERICA, INC. 500 FIFTH AVENUE SUITE 1600 NEW YORK, NY 10110 EXAMINER

KLINKEL, KORTNEY L

ART UNIT PAPER NUMBER

1611

DATE MAILED: 02/09/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,046	10/12/2004	Steffen Danielsen	10262.204-US	6213

TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR KILLING SPORES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/11/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where m

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NEW YORK, N	Y 10110						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
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CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, alternative (2) the name of a single registered attorney or a 2 registered patent attornes isted, no name will be	a single firm (having as a member a ley or agent) and the names of up to ent attorneys or agents. If no name is			
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	T a substitute for filing an  (B) RESIDENCE: (CITY	atent. If an assign assignment. 'and STATE OR C	COUNT	RY)	ocument has been filed for
Please check the appropr	riate assignee category or	categories (will not be pr	rinted on the patent):	Individual 🖵 Co	orporati	on or other private gro	oup entity Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			o. Payment of Fee(s): (Plean A check is enclosed.  Payment by credit car  The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	ched. required fee(s), any de	
	ns SMALL ENTITY statu	is. See 37 CFR 1.27.	b. Applicant is no long	-			
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than to Office.	he applicant; a regi	stered a	ttorney or agent; or th	ne assignee or other party in
Authorized Signature				Date			
Typed or printed name				-			
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APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.	
10/511,046	10/12/2004	Steffen Danielsen	10262.204-US	6213	
25908 75	590 02/09/2009		EXAMINER		
NOVOZYMES N	NORTH AMERICA,	KLINKEL, KORTNEY L			
500 FIFTH AVEN	UE	ART UNIT	PAPER NUMBER		
SUITE 1600 NEW YORK, NY	10110		1611 DATE MAILED: 02/09/200	9	

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 642 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 642 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/511,046	DANIELSEN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Kortney L. Klinkel	1611	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31:	ears on the cover sheet was (OR REMAINS) CLOSED ) or other appropriate community (BHTS). This application is 3 and MPEP 1308.	vith the correspondence address in this application. If not included nunication will be mailed in due course. THIS	
1. This communication is responsive to <u>amendments filed 14</u>	1 January 2009.		
2. X The allowed claim(s) is/are 4-12.			
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority u</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Applica	ion No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be subn	MENT of this application.		
INFORMAL PATENT APPLICATION (PTO-152) which giv  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") mu  (a) ☐ including changes required by the Notice of Draftsper	st be submitted.		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	-	ow (110 540) attached	
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR	's Amendment / Comment  1.84(c)) should be written on	the drawings in the front (not the back) of	
each sheet. Replacement sheet(s) should be labeled as such in  6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MA	TERIAL must be submitted. Note the	
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Paper No 7. ☐ Examiner	Informal Patent Application Summary (PTO-413), b./Mail Date s Amendment/Comment s Statement of Reasons for Allowance	
/Kortney L. Klinkel/ Examiner, Art Unit 1611		llamudi Landau/ atent Examiner, Art Unit 1611	

### **DETAILED ACTION**

The after-final amendments filed on 1/14/2009 are acknowledged and entered.

#### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance: The instantly claimed method of killing or inactivating spores comprising contacting the spores with a composition comprising a laccase or a compound exhibiting laccase activity, a source of oxygen, a source of iodide ions and an enhancing agent is novel and non-obvious over Johansen (US 6100080) is the closest prior art and teaches the the prior art. composition encompassed by the instant method claims. Johansen teaches a biocidal composition comprising a laccase, molecular oxygen from the atmosphere (col. 7, lines 19-25) and suggests the use of ionic iodide as an enhancing agent (col. 8, lines 22-34), as well as other enhancing agents (see col. 8 lines 35-67 and claim 1). Johansen teaches the use of this composition for combating a biofilm. However, Johansen, and the prior art in general, fail to teach or suggest the use of this composition, or even more generally the use of laccase or a compound exhibiting laccase activity, for killing or inactivating spores. It is known that certain bacteria produce spores, however, Johansen does not teach the treatment of these types of bacteria with the laccase comprising composition. Killing bacteria does not render the killing of spores obvious because it is known in the art that spores are particularly hardy and difficult to kill. Spores do not carry out any metabolic reactions and thus can withstand severe

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environmental stresses such as heat, drying conditions, toxic chemicals and even

radiation.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

Conclusion

Claims 4-12 (renumbered 1-9) are allowed.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kortney Klinkel whose telephone number is (571)270-

5239. The examiner can normally be reached on Monday-Friday 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sharmila Landau can be reached at (571)272-0614. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/511,046

Art Unit: 1611

Information regarding the status of an application may be obtained from the

Page 4

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

KLK

/Sharmila Gollamudi Landau/

Supervisory Patent Examiner, Art Unit 1611